

FIG.1

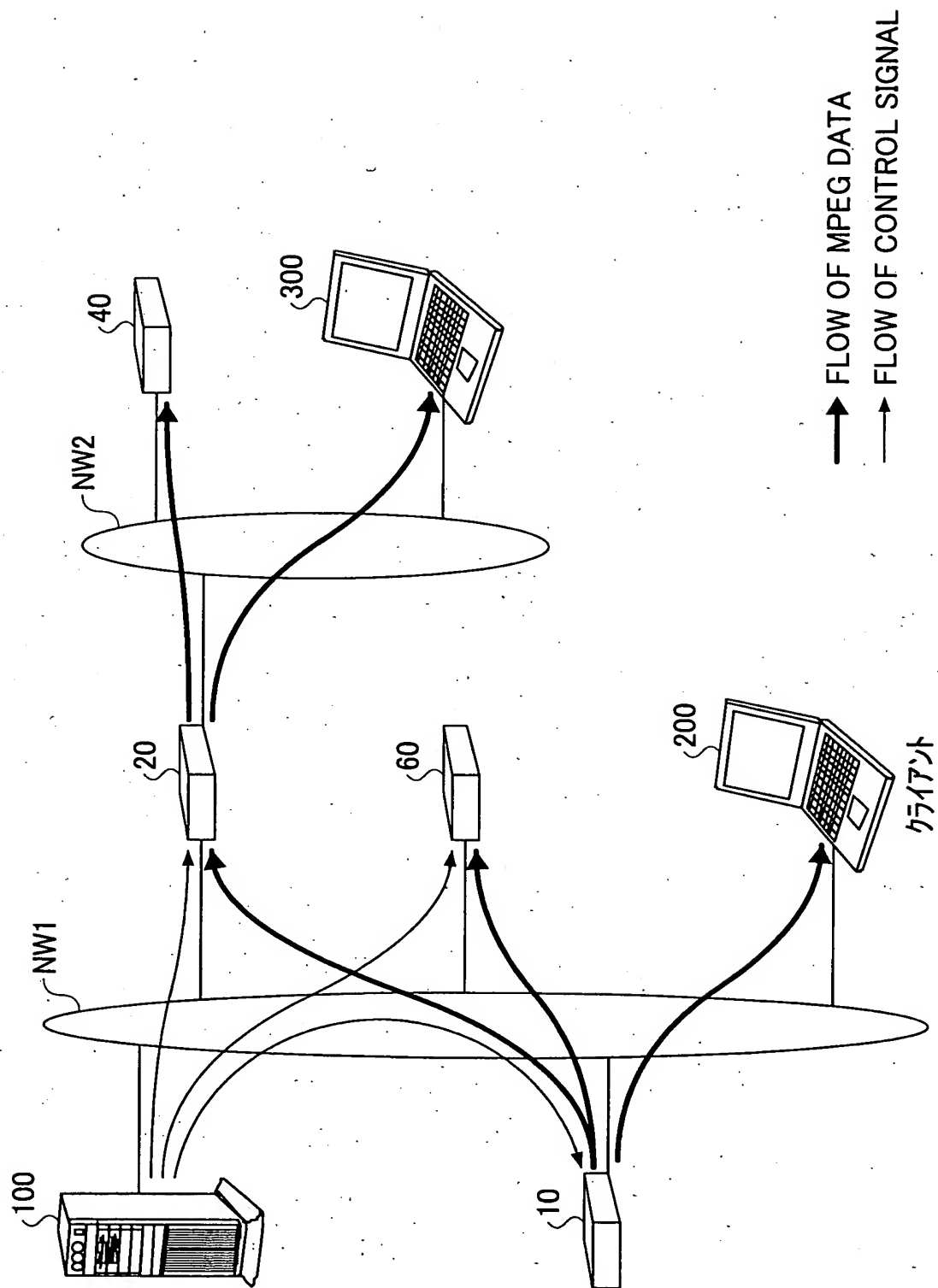


FIG.2

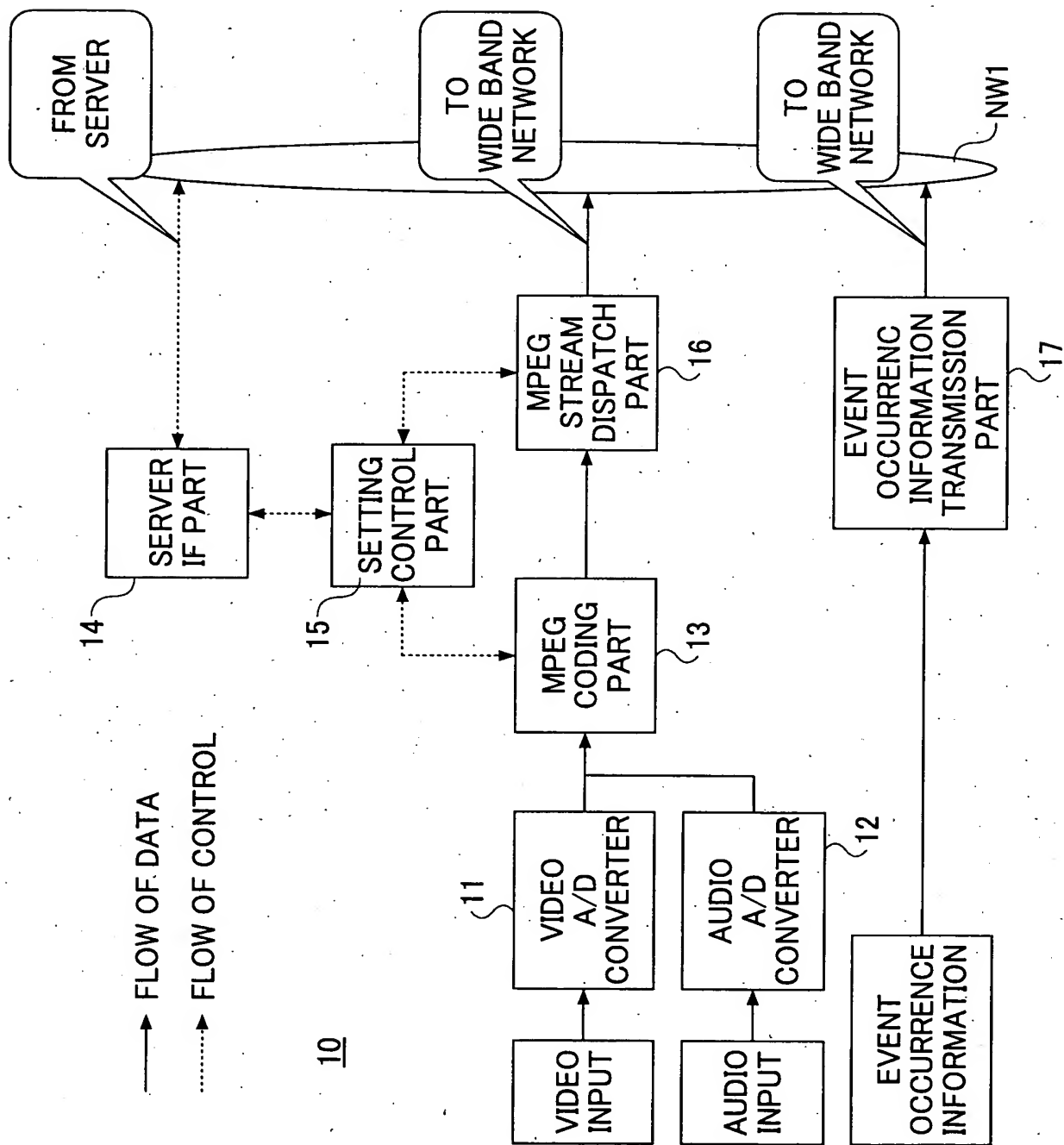


FIG.3

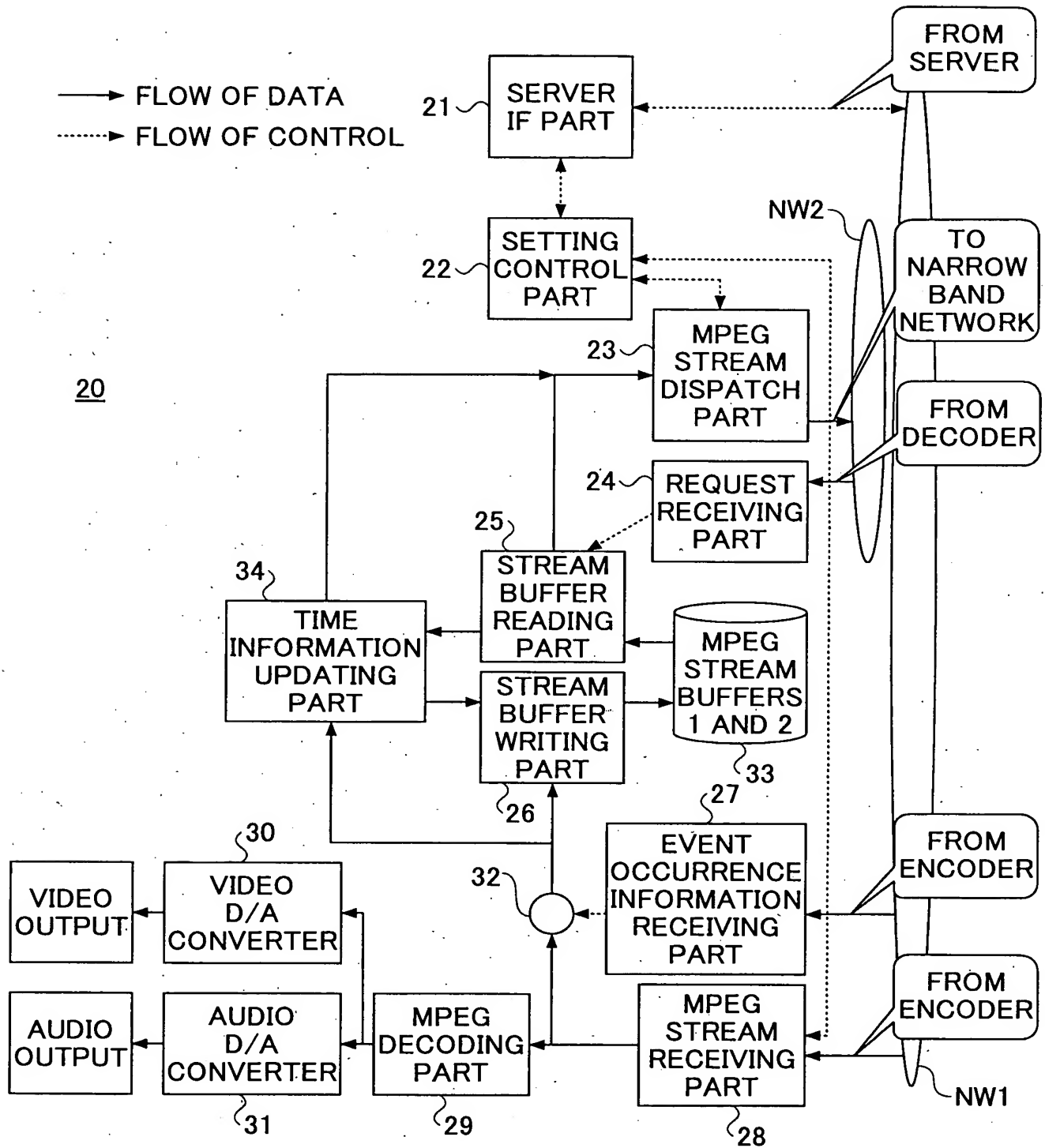


FIG.4

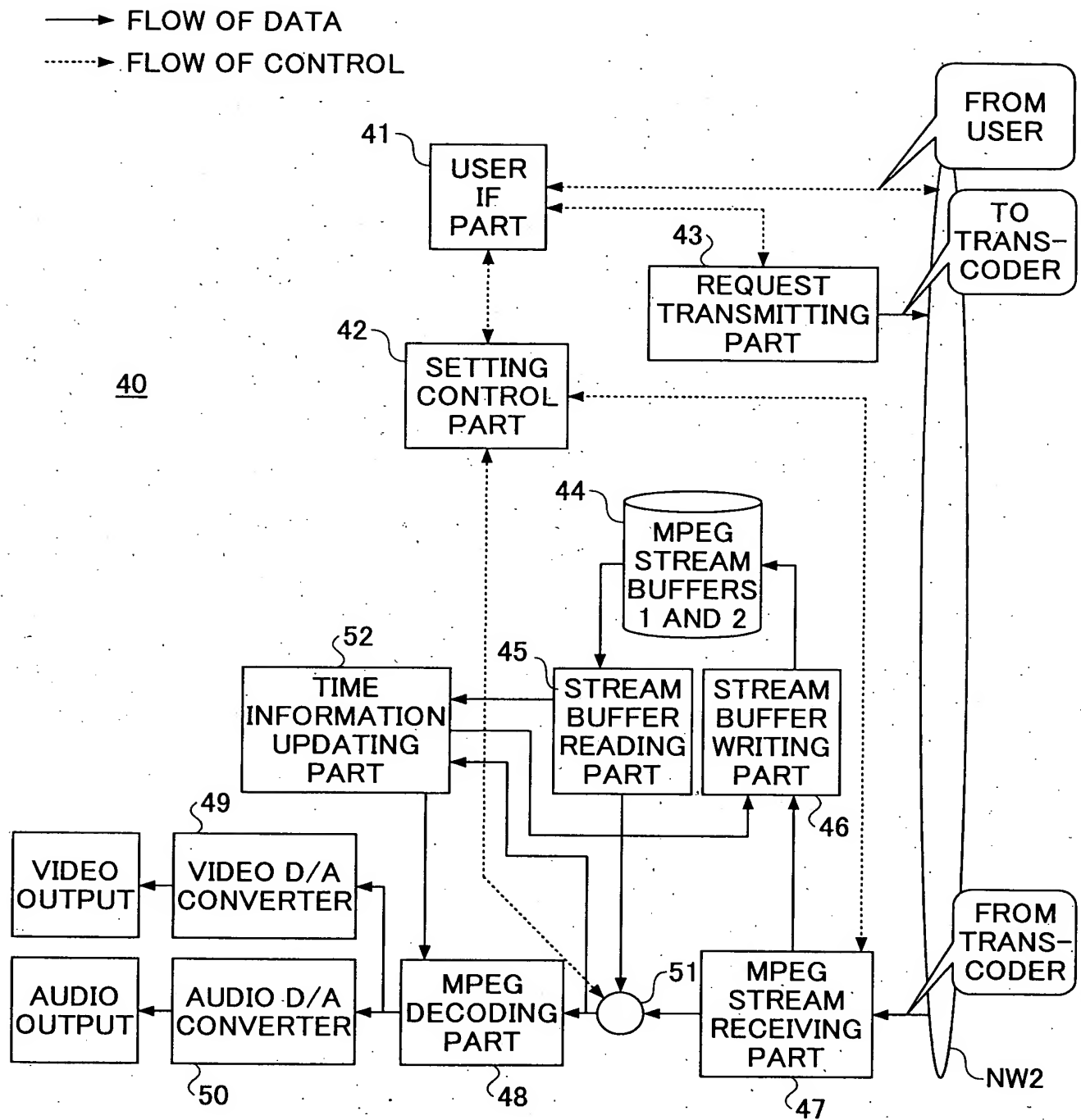


FIG.5

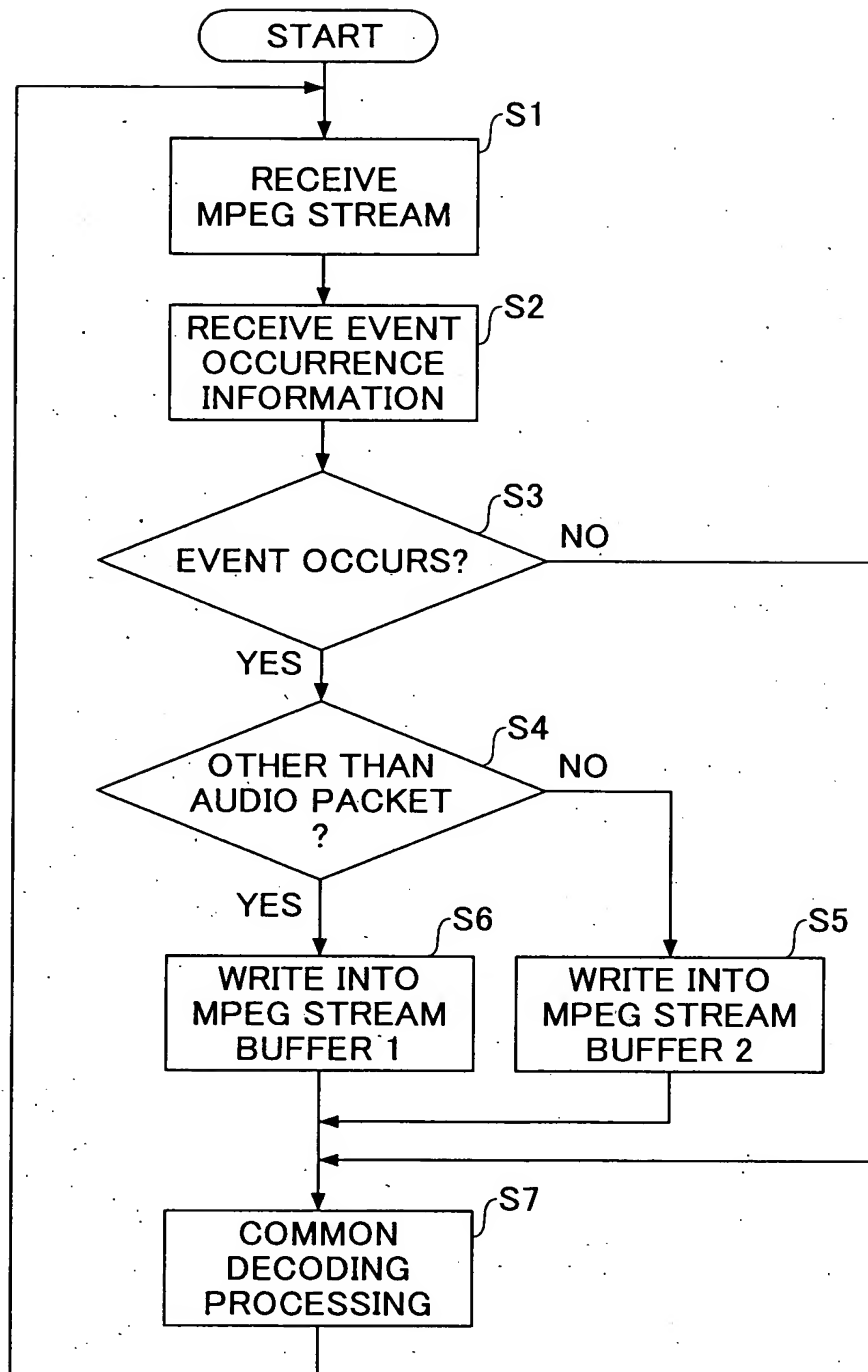


FIG.6

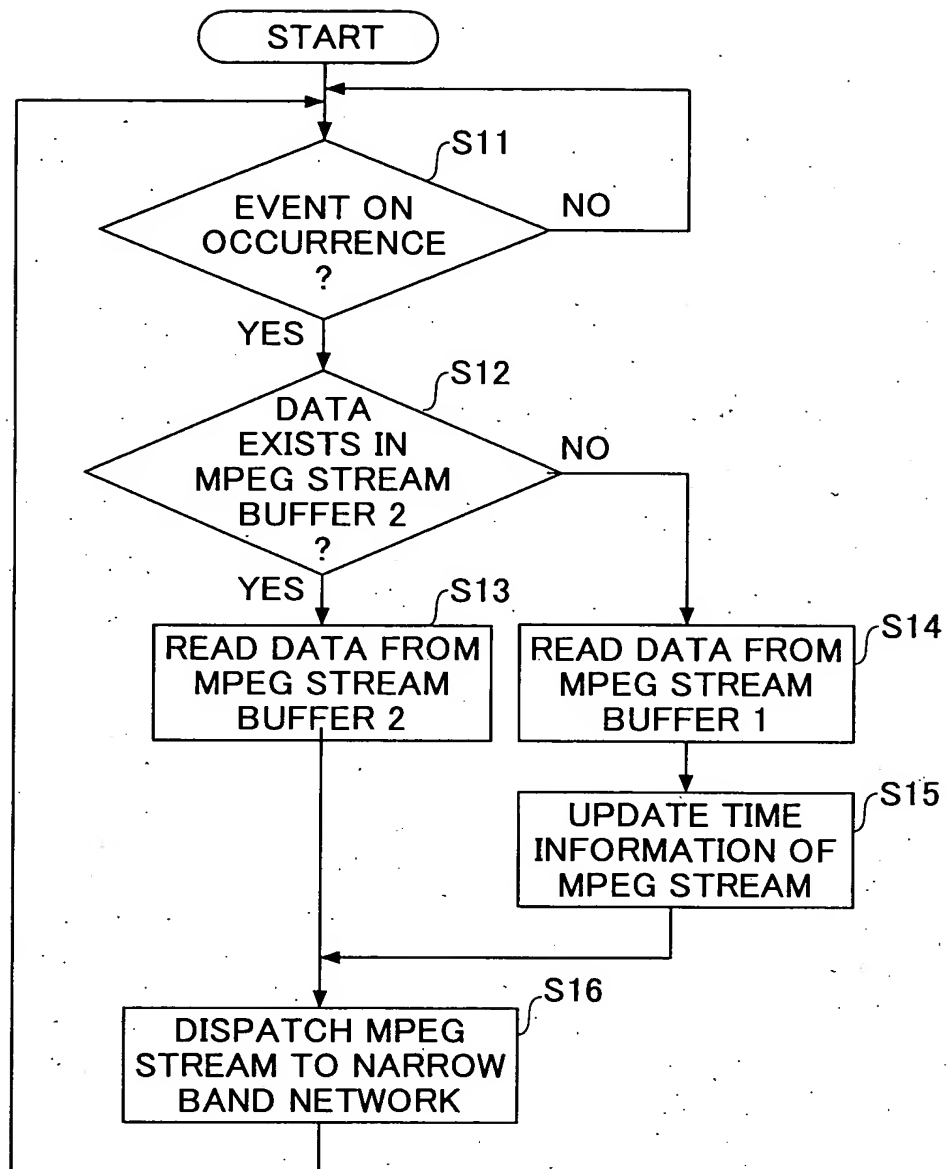


FIG.7

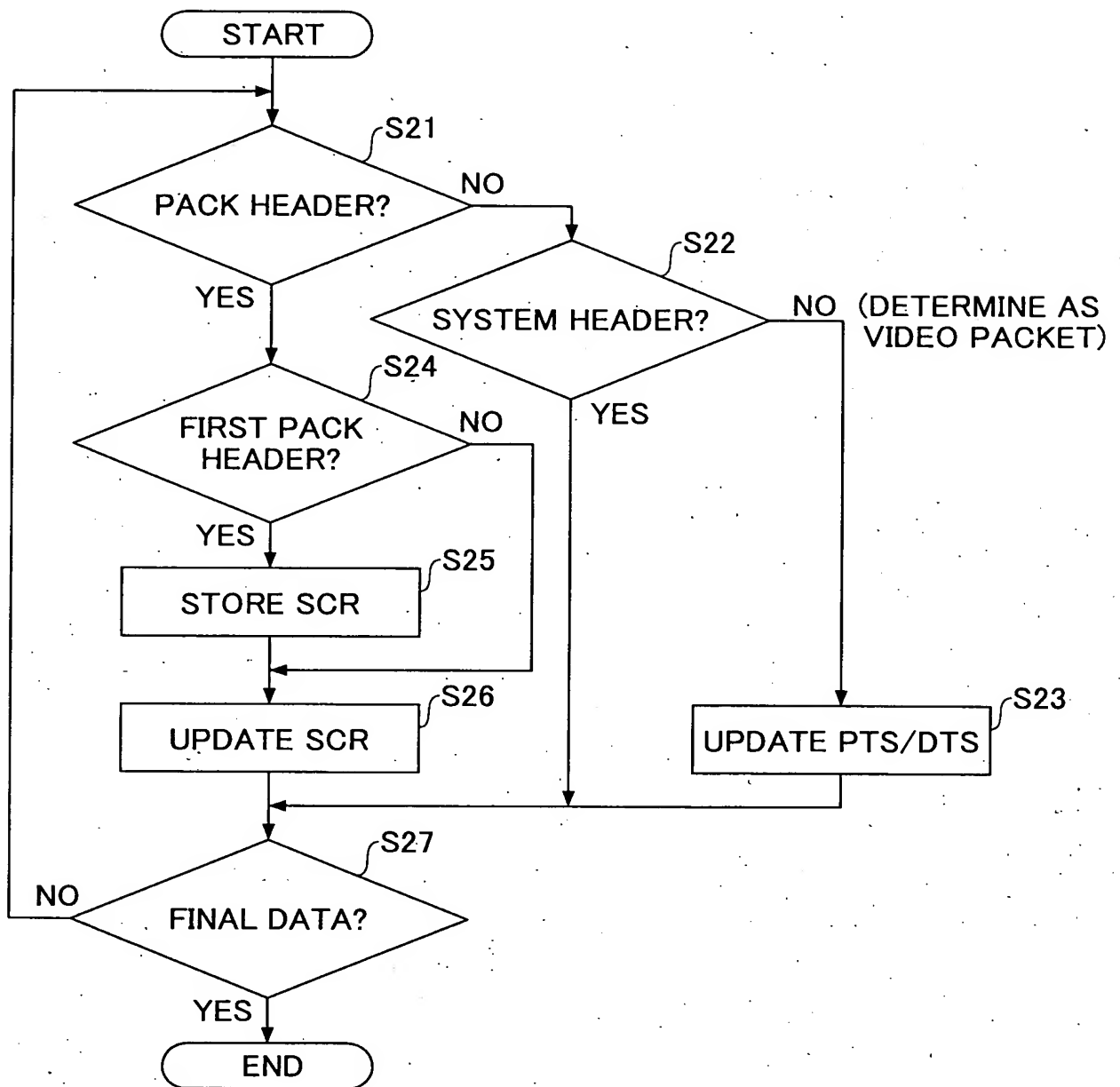


FIG.8

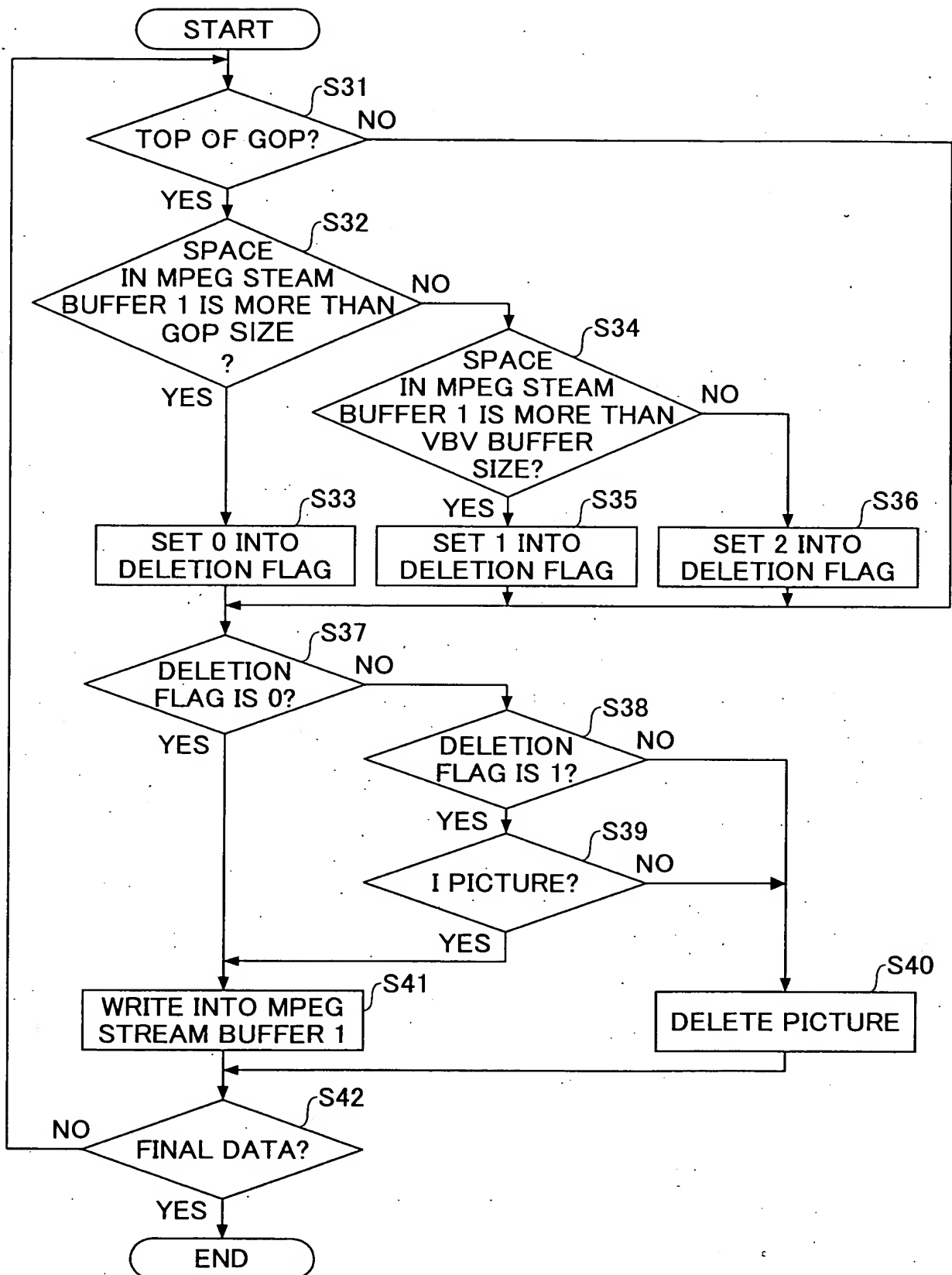


FIG.9

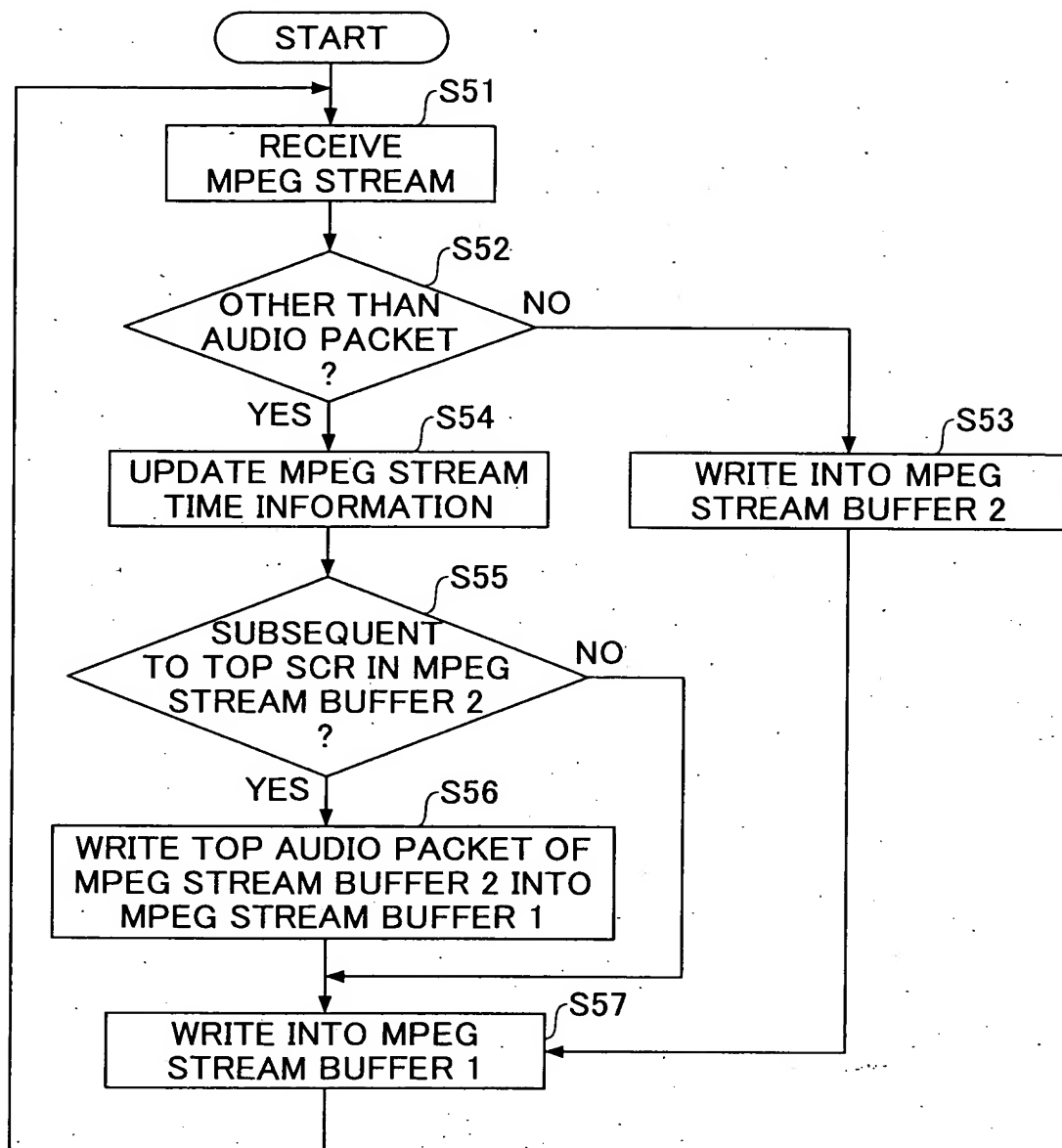


FIG.10

| SYNTAX | NUMBER OF BITS | MNEMONIC |
|--|-------------------|----------|
| <pre> MPEG2_program_stresm() { do { pack() } while(nextbits() == pack_start_code) MPEG_program_end_code } </pre> | 32 | bslbf |

FIG.11

| SYNTAX | NUMBER OF BITS | MNEMONIC |
|--|-------------------|----------|
| <pre> pack() { pack header() while(nextbits() == packet start code prefix) { PES_packet() } } </pre> | | |

FIG.12

| SYNTAX | NUMBER OF BITS | MNEMONIC |
|--|-------------------|----------|
| pack_header() { | | |
| pack_start_code | 32 | bslbf |
| '01' | 2 | bslbf |
| { | | |
| system_clock_reference_base[32..30] | 3 | bslbf |
| marker_bit | 1 | bslbf |
| ① { | | |
| system_clock_reference_base[29..15] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| system_clock_reference_base[14..00] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| system_clock_reference_extension | 9 | uimsbf |
| marker_bit | 1 | bslbf |
| program_mux_rate | 22 | uimsbf |
| marker_bit | 1 | bslbf |
| marker_bit | 1 | bslbf |
| reserved | 5 | bslbf |
| pack_stuffing_length | 3 | uimsbf |
| for(i=0; < pack_stuffing_length; i++) { | | |
| stuffing_byte | 8 | bslbf |
| } | | |
| if(nextbits() == system_header_start_code) { | | |
| system_header () | | |
| } | | |
| { | | |

FIG.13

| SYNTAX | NUMBER OF BITS | MNEMONIC |
|------------------------------|-------------------|----------|
| sysystem_header() { | | |
| system_header() { | 32 | bslbf |
| header_length | 16 | uimsbf |
| marker_bit | 1 | bslbf |
| rate_bound | 22 | uimsbf |
| marker_bit | 1 | bslbf |
| audio_bound | 6 | uimsbf |
| fixed_flag | 1 | bslbf |
| CSPS_flag | 1 | bslbf |
| system_audio_lock_flag | 1 | bslbf |
| system_video_lock_flag | 1 | bslbf |
| marker_bit | 1 | bslbf |
| video_bound | 5 | uimsbf |
| packet_rate_restriction_flag | 1 | bslbf |
| reserved_byte | 7 | bslbf |
| while(nextbits() == '1') { | | |
| stream_id | 8 | uimsbf |
| '11' | 2 | bslbf |
| P-STD_buffer_bound_scale | 1 | bslbf |
| P-STD_buffer_size_scale | 13 | uimsbf |
| } | | |
| } | | |

FIG.14

| SYNTAX | NUMBER OF BITS | MNEMONIC |
|---|-------------------|----------|
| PES_packet() { | | |
| packet_start_code_prefix | 24 | bslbf |
| stream_id ← ④ | 8 | uimsbf |
| PES_packet_length | 16 | uimsbf |
| if(stream_id != program_stream_map | | |
| && stream_id != padding_stream | | |
| && stream_id != private_stream2 | 2 | |
| && stream_id != ECM | | |
| && stream_id != EMM | | |
| && stream_id != program_stream_directory | | |
| && stream_id != DSMCC_stream | | |
| && stream_id != ITU-T recommendation H.222.1 type E_stream) { | | |
| '10' | 2 | bslbf |
| PES_scrambling_control | 2 | bslbf |
| PES_priority | 1 | bslbf |
| data_alignment_indicator | 1 | bslbf |
| copyright | 1 | bslbf |
| original_or_copy | 1 | bslbf |

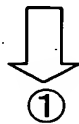
FIG.15

| | | |
|-----------------------------|----|--------|
| PTS_DTS_flags | 2 | bslbf |
| ESCR_flag | 1 | bslbf |
| ES_rate_flag | 1 | bslbf |
| DSM_23ick_mode_flag | 1 | bslbf |
| additional_copy_info_flag | 1 | bslbf |
| PES_CRC_flag | 1 | bslbf |
| PES_extension_flag | 1 | bslbf |
| PES_header_data_length | 8 | uimsbf |
| if(PTS_DTS_flags == '10') { | | |
| '0010' | 4 | bslbf |
| PTS [32..30] | 3 | bslbf |
| marker_bit | 1 | bslbf |
| PTS [29..15] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| PTS [14..0] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| } | | |
| if(PTS_DTS_flags == '11') { | | |
| '0011' | 4 | bslbf |
| PTS [32..30] | 3 | bslbf |
| marker_bit | 1 | bslbf |
| PTS [29..15] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| PTS [14..0] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| '0001' | 4 | bslbf |
| DTS [32..30] | 3 | bslbf |
| marker_bit | 1 | bslbf |
| DTS [29..15] | 15 | bslbf |
| marker_bit | 1 | bslbf |
| DTS [14..0] | 15 | bslbf |
| marker_bit | 1 | bslbf |

FIG.16

SPECIFIC NUMERAL EXAMPLE
OF SCR/PTS/DTS(FOR ONE SECOND)
SCR/PTS/DTS (msec)
BEFORE CONVERSION

| SRC | Video PTS/DTS | Audio PTS |
|----------------|----------------|-----------|
| 666 | 872 | |
| 684 | | 837 |
| 707 | | 861 |
| 731 | | 885 |
| 756 | | 909 |
| 779 | | 933 |
| 804 | | 957 |
| 827 | | 981 |
| 831 | 906 | |
| 845 | 939 | |
| 851 | | 1005 |
| 858 | 973 | |
| 875 | | 1029 |
| 899 | | 1053 |
| 910 | 1006 | |
| 921 | 1039 | |
| 924 | | 1077 |
| 933 | 1073 | |
| 947 | | 1101 |
| 972 | | 1125 |
| 988 | 1106 | |
| 995 | | 1149 |
| 1000 | 1139 | |
| 1011 | 1173 | |
| 1019 | | 1173 |
| 1044 | | 1197 |
| 1064 | 1206 | |
| 1067 | | 1221 |
| 1077 | 1240 | |
| 1088 | 1273 | |
| 1092 | | 1245 |
| 1115 | | 1269 |
| 1140 | | 1293 |



SCR/PTS/DTS (msec)
AFTER TRIPLING CONVERSION

| SRC | Video PTS/DTS | Audio PTS |
|----------------|-----------------|-----------|
| 666 | 1284 | |
| 720 | | 1179 |
| 789 | | 1251 |
| 861 | | 1232 |
| 936 | | 1395 |
| 1005 | | 1467 |
| 1080 | | 1539 |
| 1149 | | 1611 |
| 1161 | 1386 | |
| 1203 | 1485 | |
| 1221 | | 1683 |
| 1242 | 1587 | |
| 1293 | | 1755 |
| 1365 | | 1827 |
| 1398 | 1686 | |
| 1431 | 1785 | |
| 1440 | | 1899 |
| 1467 | 1887 | |
| 1509 | | 1971 |
| 1584 | | 2043 |
| 1632 | 1986 | |
| 1653 | | 2115 |
| 1668 | 2085 | |
| 1701 | 2187 | |
| 1725 | | 2187 |
| 1800 | | 2259 |
| 1860 | 2286 | |
| 1869 | | 2331 |
| 1899 | 2388 | |
| 1932 | 2487 | |
| 1944 | | 2403 |
| 2013 | | 2475 |
| 2088 | | 2547 |

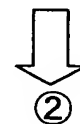
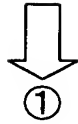
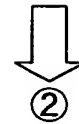


FIG.17



| | | |
|------|------|------|
| 1141 | 1306 | |
| 1152 | 1340 | |
| 1163 | | 1317 |
| 1165 | 1373 | |
| 1187 | | 1341 |
| 1212 | | 1365 |
| 1235 | | 1389 |
| 1260 | | 1413 |
| 1283 | | 1437 |
| 1307 | | 1461 |
| 1331 | | 1485 |
| 1335 | 1406 | |
| 1346 | 1440 | |
| 1355 | | 1509 |
| 1359 | 1473 | |
| 1380 | | 1533 |
| 1403 | | 1557 |
| 1411 | 1506 | |
| 1422 | 1540 | |
| 1428 | | 1581 |
| 1433 | 1573 | |
| 1451 | | 1605 |
| 1475 | | 1629 |
| 1489 | 1607 | |
| 1499 | | 1653 |
| 1500 | 1640 | |
| 1510 | 1673 | |
| 1523 | | 1677 |
| 1548 | | 1701 |
| 1566 | 1707 | |
| 1571 | | 1725 |
| 1578 | 1740 | |
| 1589 | 1773 | |
| 1596 | | 1749 |
| 1619 | | 1773 |
| 1641 | 1807 | |
| 1643 | | 1797 |
| 1653 | 1840 | |
| 1665 | 1873 | |



| | | |
|------|------|------|
| 2091 | 2586 | |
| 2124 | 2688 | |
| 2157 | | 2619 |
| 2163 | 2787 | |
| 2229 | | 2691 |
| 2304 | | 2763 |
| 2373 | | 2835 |
| 2448 | | 2907 |
| 2517 | | 2979 |
| 2589 | | 3051 |
| 2661 | | 3123 |
| 2673 | 2886 | |
| 2706 | 2988 | |
| 2733 | | 3195 |
| 2745 | 3087 | |
| 2808 | | 3267 |
| 2877 | | 3339 |
| 2901 | 3186 | |
| 2934 | 3288 | |
| 2952 | | 3411 |
| 2967 | 3387 | |
| 3021 | | 3483 |
| 3093 | | 3555 |
| 3135 | 3489 | |
| 3165 | | 3627 |
| 3168 | 3588 | |
| 3198 | 3687 | |
| 3237 | | 3699 |
| 3312 | | 3771 |
| 3366 | 3789 | |
| 3381 | | 3843 |
| 3402 | 3888 | |
| 3435 | 3987 | |
| 3456 | | 3915 |
| 3525 | | 3987 |
| 3591 | 4089 | |
| 3597 | | 4059 |
| 3627 | 4188 | |
| 3663 | 4287 | |

FIG.18

